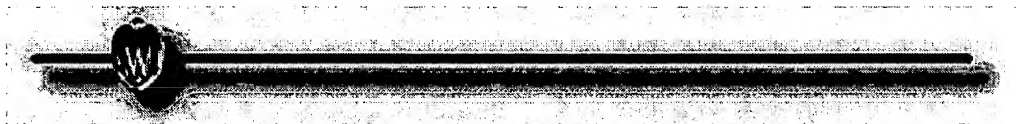


# PCRL Publications



*"In science one tries to tell people, in such a way as to be understood by everyone, something that no one ever knew before. But in poetry, it's the exact opposite." Paul Dirac*



**Publication of research results is the primary means of disseminating new information within the research community. The list of PCRL publications is subdivided into:**

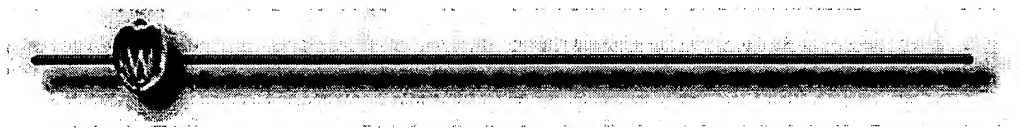
- powertrain system modeling,
- nonlinear engine diagnostics,
- powertrain control,
- related powertrain topics.



## ***Powertrain System Modeling:***

- Moskwa, J.J., Hedrick, J.K., "Modeling and Validation of Automotive Engines for Control Algorithm Development," ASME Journal of Dynamic Systems, Measurement, and Control, Vol. 114, No. 2, pp. 278-285, June 1992.
- Moskwa, J.J., "Estimation of Dynamic Fuel Parameters in Automotive Engines," ASME Journal of Dynamic Systems, Measurement, and Control, Vol. 116/5, December, 1994.
- Pan, C.H., Moskwa, J.J., "An Analysis of the Effects of Torque, Engine Geometry and Speed on Choosing an Engine Inertia Model to Minimize Prediction Errors," ASME Journal of Dynamic Systems, Measurement, and Control, Vol. 118, March 1996.
- Kao, M.H., Moskwa, J.J., "Turbocharged Diesel Engine Modeling for Nonlinear Engine Control and State Estimation," ASME Journal of Dynamic Systems, Measurement, and Control, Vol 117, March 1995.
- Pan, C.H., Shiao, Y.J., Moskwa, J.J., "Advanced Dynamic S.I. Engine Modeling for Diagnostics and Control," International Journal of Vehicle Design, Vol. 15, No. 6, 1994.
- Weeks, R.W., Moskwa, J.J., "Automotive Engine Modeling for Real-Time Control Using MATLAB/SIMULINK," SAE paper #950417, February 1995, also published in SAE special publication SP-1080.
- Pan, C.H., Moskwa, J.J., "Dynamic Modeling and Simulation of the Ford AOD Automatic Transmission," SAE paper #950899, February 1995.

- Rubin, Z.J., Moskwa, J.J., Munns, S.A., "Development of the Automotive Research Center (ARC) Powertrain System Dynamic Models," Proceedings of the ASME-ICE Spring Technical Conference, Vol. 28-1, April 1997, Ft. Collins, CO.
- Moskwa, J.J., Munns, S.A., Rubin, Z.J. "The Development of Vehicular Powertrain System Modeling Methodologies; Philosophy and Implementation," SAE paper #971089, February 1997, Detroit, MI.
- Anthony, J.J., Moskwa, J.J., Danielson, E., "Powertrain Simulation of the M1A1 Abrams using Modular Model Component," SAE paper #980926.
- Hribernik, A., Moskwa, J.J., "Transient Response of a Cross-Flow Charge Air Intercooler and its Influence on Engine Operation," Proceedings of the ASME-ICE Spring Technical Conference, April 1998, Ft. Lauderdale, FL.
- Moskwa, J.J., Hedrick, J.K., "Automotive Engine Modeling for Real Time Control Application," Proceedings of the 1987 American Control Conference, WA10-11:00, pp. 341-346, Minneapolis, MN, June 1987.
- Liaw, C.M., Moskwa, J.J., "A Simple Method for the Calculation of Cylinder Pressure in Diesel Engine Cycle Simulation," University of Wisconsin-Madison, Department of Mechanical Engineering Report #ECD-89-01, 1989.
- Kao, M.H., Moskwa, J.J., "Modeling and Simulation of the Turbocharger," University of Wisconsin-Madison, Department of Mechanical Engineering Report #ECD-89-02, 1989.
- Sirisuwannatash, W., Moskwa, J.J., "Combustion Modeling for Diesel Engine Diagnostics," University of Wisconsin-Madison, Department of Mechanical Engineering Report #ECD-90-01, 1990.



## ***Nonlinear Engine Diagnostics:***

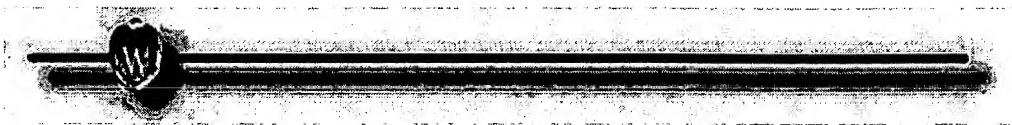
- Shiao, Y.J., Moskwa, J.J., "Misfire Detection and Cylinder Pressure Reconstruction for SI Engines," SAE paper #940144, February 1994, also in an SAE special publication Electronic Engine Controls (SP-1029).
- Kao, M.H., Moskwa, J.J., "Nonlinear Cylinder and Intake Manifold Pressure Observers for Engine Control and Diagnostics," SAE paper #940375, February 1994, also published in an SAE special publication Electronic Engine Controls (SP-1029).
- Weeks, R.W., Moskwa, J.J., "Transient Air Flow Rate Estimation in a Natural Gas Engine Using a Nonlinear Observer," SAE paper #940759, February, 1994.
- Kao, M.H., Moskwa, J.J., "Engine Load and Equivalence Ratio Estimation for Control and Diagnostics via Nonlinear Sliding Observers," International Journal of Vehicle Design, Vol. 15, No. 3/4, 1994.
- Shiao, Y.J., Moskwa, J.J., "Cylinder Pressure and Combustion Heat Release Estimation for SI Engine Diagnostics Using Nonlinear Sliding Observers," IEEE Transactions on Control Systems Technology, Vol. 3, No. 1, March 1995.
- Kao, M.H., Moskwa, J.J., "Model-Based Engine Fault Detection Using Cylinder Pressure Estimates from Nonlinear Observers," Proceedings of the 33rd IEEE Conference on Decision and Control, December, 1994, Orlando, FL.
- Kao, M.H., Moskwa, J.J., "Nonlinear Diesel Engine Control and Cylinder Pressure Observation," ASME Journal of Dynamic Systems Measurement and Control, Vol. 117, No. 2, June 1995.
- Shiao, Y.J., Moskwa, J.J., "Fault Identification in Engine Misfire Using a Runner-by-Runner Intake Manifold Observer," SAE paper #960327, February 1996.

- Moskwa, J.J., Pan, C.H., "Engine Load Torque Estimation Using Nonlinear Observers, " Proceedings of the 34th IEEE Conference on Decision and Control, December 13-15, 1995, New Orleans, LA
- Chen, S.X., Moskwa, J.J., "Application of Nonlinear Sliding Mode Observers for Cylinder Pressure Reconstruction," IFAC International Journal of Control Engineering Practice, Issue 5(8), August, 1997. Proceedings of the 13th International Federation of Automatic Control (IFAC) World Congress, July 1996, San Francisco, CA.
- Shiao, Y., Moskwa, J.J., "Model-Based Cylinder-by-Cylinder Air-Fuel Ratio Control for SI Engines Using Sliding Observers," Proceedings of the IEEE Conference on Control Applications, September, 1996, Dearborn, MI.
- Lewandowski, E.J., Moskwa, J.J., "On Guaranteeing Global Stability for Sliding Mode Control, Theory and Experiment," Proceedings of the 1991 American Control Conference, TP14-17;00, pp. 2077-2082, June 1991, Boston.
- Kao, M.H., Moskwa, J.J., "Estimating the Indicated Torque from the Engine Speed Measurement," University of Wisconsin-Madison, Department of Mechanical Engineering . Report #ECD-90-02, 1990.
- Moskwa, J.J., Wang, W., Bucheger, D.J., "A New Methodology for Engine Diagnostics and Control Utilizing "Synthetic" Engine Variables: Theoretical and Experimental Results," Proceedings of ASME-IMECE, November 1998, San Diego, CA.



### ***Powertrain Control:***

- Moskwa, J.J., Hedrick, J.K., "Nonlinear Algorithms for Automotive Engine Control," IEEE Control Systems Magazine, Vol. 10, No. 3, pp.88-93, April 1990.
- Moskwa, J.J., "Sliding Mode Control of Automotive Engines," ASME Journal of Dynamic Systems, Measurement, and Control, Vol. 115, No. 4, pp. 687-693, December 1993.
- Yu, S-H., Moskwa, J.J., "A Global Approach to Vehicle Control: Coordination of Four Wheel Steering and Wheel Torques," ASME Journal of Dynamic Systems, Measurement, and Control, Vol. 116, No. 4, December 1994.
- Kao, M.H., Moskwa, J.J., "Nonlinear Diesel Engine Control and Cylinder Pressure Observation," ASME Journal of Dynamic Systems, Measurement, and Control, Vol. 117/1, June 1995.
- Moskwa, J.J., Anthony, J.W., Babbitt, G.B. and Rubin, Z.J., "Synthesis of Software and Hardware in PCRL for Powertrain Design and Development," IEEE Control Systems Magazine, Special Issue on Powertrain Control, 1998.
- Moskwa, J.J., Scarisbrick, A.D., Eade, D., "Design Robustness System (DRS); New Concepts for Robustness Analysis," Proceedings of ASME-IMECE, November 1998, San Diego, CA.



### ***Related Powertrain Topics::***

- Gutknecht, M.J., Schneidewend, D.R., Moskwa, J.J., Kime, C.R., Ramanathan, P., "Fault Tolerant Analysis of Alternate Automotive Brake System Designs," SAE paper #930511 and 1993 SAE

Transactions, February, 1993.

- Longstreth, J.C., Sanders, F.A., Seaney, S.P., Moskwa, J.J., Fronczak, F.J., "Design and Construction of a High-Bandwidth Hydrostatic Dynamometer," SAE paper #930259 and 1993 SAE Transactions, February, 1993.
- Shiao, Y.J., Moskwa, J.J., "An Investigation of Load Force and Dynamic Error Magnitude Using the Lumped Mass Connecting Rod Model," SAE paper #930617 and 1993 SAE Transactions, February, 1993.
- Moskwa, J.J., Babbitt, G.R., Seaney, S.P., "Development of a High-Bandwidth, Hydrostatic Transient Engine Dynamometer System," Proceedings of the 29th ISATA Conference, June 3-6, 1996, Florence, Italy.
- Babbitt, G.R., Moskwa, J.J., "Hardware Implementation Details and Test Results for a High-Bandwidth, Hydrostatic Transient Engine Dynamometer System," SAE paper #970025 and Special Publication SP-1240, February 1997, Detroit, MI.
- Babbitt, G.R., Moskwa, J.J., "Design of an Integrated System for the Control and Data Acquisition of a High-Bandwidth, Hydrostatic Transient Engine Dynamometer System," Proceedings of the 1997 American Control Conference, June 1997, Albuquerque, NM.
- Moskwa, J.J., Barber, P., Banbury, M., Castello, S., Heldke, B. "The University of Wisconsin-Madison Paradigm Hybrid Electric Vehicle," SAE special publication SP-980, 1994 SAE International Congress and Exposition, Detroit, MI, February 1994.
- Wong, J.Y., Moskwa, J.J., Velinsky, S.A. (coeditors), Transportation Systems 1990, AMD-Vol. 108, ASME, 1990.
- Moskwa, J.J., "Vehicle Powertrain Research Needs for the 1990's," Advanced Automotive Technologies 1991, DE-Vol. 40, pp. 17-20, ASME Winter Annual Meeting, Atlanta, December 1991.

---

[ [about](#) | [news](#) | [facilities](#) | [research](#) | [people](#) | [publications](#) | [sponsors](#) | [photos](#) | [links](#) ]

Copyright © 1998-2004, **Powertrain Control Research Laboratory**. All rights reserved.  
URL: <http://powertrain.engr.wisc.edu>

IEEE HOME | SEARCH IEEE | SHOP | WEB ACCOUNT | CONTACT IEEE



Membership Publications/Services Standards Conferences Careers/Jobs

**IEEE Xplore®**  
 RELEASE 1.7

 Welcome  
 United States Patent and Trademark Office


&gt;&gt; Search

[Help](#) [FAQ](#) [Terms](#) [IEEE Peer Review](#)
[Quick Links](#)

Welcome to IEEE Xplore®

- ☐ Home
- ☐ What Can I Access?
- ☐ Log-out

Tables of Contents

- ☐ Journals & Magazines
- ☐ Conference Proceedings
- ☐ Standards

Search

- ☐ By Author
- ☐ Basic
- ☐ Advanced

Member Services

- ☐ Join IEEE
- ☐ Establish IEEE Web Account
- ☐ Access the IEEE Member Digital Library

Print Format

## Full-text Search Prototype Results

Fee

Your search matched **61** of **1028771** documents.  
 A maximum of **500** results are displayed, **15** to a page, sorted by **Relevance Descending** order.

## Refine This Search:

You may refine your search by editing the current search expression or entering a new one in the text box.

simulation &lt;and&gt;transmission&lt;and&gt;powertrain

Search

☐ Check to search within this result set

## Results Key:

**JNL** = Journal or Magazine   **CNF** = Conference   **STD** = Standard
1 **Power management strategy for a parallel hybrid electric truck**
*Chan-Chiao Lin; Huei Peng; Grizzle, J.W.; Jun-Mo Kang;*

Control Systems Technology, IEEE Transactions on , Volume: 11 , Issue: 6 , 2003

Pages:839 - 849

[\[Abstract\]](#)
[\[PDF Full-Text \(700 KB\)\]](#)

IEEE JNL

2 **A modular approach to the computer simulation of a passenger car powertrain incorporating a diesel engine and continuously variable transmission**
*Deacon, M.; Brace, C.J.; Guebeli, M.; Vaughan, N.D.; Burrows, C.R.; Dorey, I.*  
 Control, 1994. Control '94. Volume 1., International Conference on , 21-24 M 1994

Pages:320 - 325 vol.1

[\[Abstract\]](#)
[\[PDF Full-Text \(424 KB\)\]](#)

IEEE CNF

3 **Nonlinear control of a continuously variable transmission (CVT)**
*Setlur, P.; Wagner, J.R.; Dawson, D.M.; Samuels, B.;*

Control Systems Technology, IEEE Transactions on , Volume: 11 , Issue: 1 , 2003

Pages:101 - 108

[\[Abstract\]](#)
[\[PDF Full-Text \(588 KB\)\]](#)

IEEE JNL

4 **Effects of control structure on performance for an automotive**

**powertrain with a continuously variable transmission***Liu, S.; Stefanopoulou, A.G.;*

Control Systems Technology, IEEE Transactions on , Volume: 10 , Issue: 5 , 2002

Pages:701 - 708

[\[Abstract\]](#) [\[PDF Full-Text \(281 KB\)\]](#) IEEE JNL**5 A strategy to verify chassis controller software-dynamics, hardware automation***Wagner, J.R.; Keane, J.F.;*

Systems, Man and Cybernetics, Part A, IEEE Transactions on , Volume: 27 , Issue: 4 , July 1997

Pages:480 - 493

[\[Abstract\]](#) [\[PDF Full-Text \(320 KB\)\]](#) IEEE JNL**6 Mechatronic design and control of hybrid electric vehicles***Baumann, B.M.; Washington, G.; Glenn, B.C.; Rizzoni, G.;*

Mechatronics, IEEE/ASME Transactions on , Volume: 5 , Issue: 1 , March 2000

Pages:58 - 72

[\[Abstract\]](#) [\[PDF Full-Text \(348 KB\)\]](#) IEEE JNL**7 An H-infinity-based control design methodology dedicated to the active control of vehicle longitudinal oscillations***Lefebvre, D.; Chevrel, P.; Richard, S.;*

Control Systems Technology, IEEE Transactions on , Volume: 11 , Issue: 6 , June 2003

Pages:948 - 956

[\[Abstract\]](#) [\[PDF Full-Text \(531 KB\)\]](#) IEEE JNL**8 Nonlinear air-to-fuel ratio and engine speed control for hybrid vehicles***Wagner, J.R.; Dawson, D.M.; Liu Zeyu;*

Vehicular Technology, IEEE Transactions on , Volume: 52 , Issue: 1 , Jan. 2001

Pages:184 - 195

[\[Abstract\]](#) [\[PDF Full-Text \(700 KB\)\]](#) IEEE JNL**9 Subject Index**

Industry Applications, IEEE Transactions on , Volume: 38 , Issue: 1 , Jan.-Feb. 2002

Pages:247 - 356

[\[Abstract\]](#) [\[PDF Full-Text \(857 KB\)\]](#) IEEE JNL**10 Minimum sensor second-order sliding mode longitudinal control of passenger vehicles***Ferrara, A.; Pisu, P.;*

Intelligent Transportation Systems, IEEE Transactions on , Volume: 5 , Issue: 1 , March 2004

Pages:20 - 32

[\[Abstract\]](#) [\[PDF Full-Text \(448 KB\)\]](#) **IEEE JNL**

---

**11 Design and testing of a belt-driven induction starter-generator**

*Shaotang Chen; Lequesne, B.; Henry, R.R.; Yanhong Xue; Ronning, J.J.;*

Industry Applications, IEEE Transactions on , Volume: 38 , Issue: 6 , Nov.-Dec. 2002

Pages:1525 - 1533

[\[Abstract\]](#) [\[PDF Full-Text \(991 KB\)\]](#) **IEEE JNL**

---

**12 ADVISOR 2.1: a user-friendly advanced powertrain simulation using combined backward/forward approach**

*Wipke, K.B.; Cuddy, M.R.; Burch, S.D.;*

Vehicular Technology, IEEE Transactions on , Volume: 48 , Issue: 6 , Nov. 19

Pages:1751 - 1761

[\[Abstract\]](#) [\[PDF Full-Text \(352 KB\)\]](#) **IEEE JNL**

---

**13 Fuzzy logic control for parallel hybrid vehicles**

*Schouten, N.J.; Salman, M.A.; Kheir, N.A.;*

Control Systems Technology, IEEE Transactions on , Volume: 10 , Issue: 3 , Dec. 2002

Pages:460 - 468

[\[Abstract\]](#) [\[PDF Full-Text \(341 KB\)\]](#) **IEEE JNL**

---

**14 FEM-based neural-network approach to nonlinear modeling with application to longitudinal vehicle dynamics control**

*Kalkkuhl, J.; Hunt, K.J.; Fritz, H.;*

Neural Networks, IEEE Transactions on , Volume: 10 , Issue: 4 , July 1999

Pages:885 - 897

[\[Abstract\]](#) [\[PDF Full-Text \(316 KB\)\]](#) **IEEE JNL**

---

**15 Modeling and simulation for hybrid electric vehicles. I. Modeling**

*Xiaoling He; Hodgson, J.W.;*

Intelligent Transportation Systems, IEEE Transactions on , Volume: 3 , Issue: 4 , Dec. 2002

Pages:235 - 243

[\[Abstract\]](#) [\[PDF Full-Text \(592 KB\)\]](#) **IEEE JNL**

---

[1](#) [2](#) [3](#) [4](#) [5](#) [Next](#)

---

[Home](#) | [Log-out](#) | [Journals](#) | [Conference Proceedings](#) | [Standards](#) | [Search by Author](#) | [Basic Search](#) | [Advanced Search](#) | [Join IEEE](#) | [Web Account](#) | [New this week](#) | [OPAC Linking Information](#) | [Your Feedback](#) | [Technical Support](#) | [Email Alerting](#) | [No Robots Please](#) | [Release Notes](#) | [IEEE Online Publications](#) | [Help](#) | [FAQ](#) | [Terms](#) | [Back to Top](#)

Copyright © 2004 IEEE — All rights reserved

IEEE HOME | SEARCH IEEE | SHOP | WEB ACCOUNT | CONTACT IEEE



Membership Publications/Services Standards Conferences Careers/Jobs

**IEEE Xplore®**  
 RELEASE 1.7

 Welcome  
 United States Patent and Trademark Office


&gt;&gt; See

[Help](#) [FAQ](#) [Terms](#) [IEEE Peer Review](#)
[Quick Links](#)

Welcome to IEEE Xplore®

- ☐ Home
- ☐ What Can I Access?
- ☐ Log-out

Tables of Contents

- ☐ Journals & Magazines
- ☐ Conference Proceedings
- ☐ Standards

Search

- ☐ By Author
- ☐ Basic
- ☐ Advanced

Member Services

- ☐ Join IEEE
- ☐ Establish IEEE Web Account
- ☐ Access the IEEE Member Digital Library

Print Format

## Full-text Search Prototype Results

Fee

Your search matched **61** of **1028771** documents.  
 A maximum of **500** results are displayed, **15** to a page, sorted by **Relevance Descending** order.

## Refine This Search:

You may refine your search by editing the current search expression or enter a new one in the text box.

simulation &lt;and&gt;transmission&lt;and&gt;powertrain

Search

☐ Check to search within this result set

## Results Key:

**JNL** = Journal or Magazine    **CNF** = Conference    **STD** = Standard

**16 "AUTOTOOL", a PC-based object-oriented automotive powertrain simulation tool**
*Jung-Ho Kim; Byeong Yong Jeong; Dong-Il Dan Cho; Hoyoun Kim;*

Intelligent Transportation System, 1997. ITSC 97. IEEE Conference on , 9-12 1997

Pages:753 - 758

[\[Abstract\]](#)
[\[PDF Full-Text \(460 KB\)\]](#)

IEEE CNF

**17 Reliability testing for customer satisfaction attributes**
*Plotkin, C.W.; Kee S. Moon;*

Reliability and Maintainability, 2004 Annual Symposium - RAMS , Jan. 26-29, Pages:280 - 286

[\[Abstract\]](#)
[\[PDF Full-Text \(400 KB\)\]](#)

IEEE CNF

**18 PSIM-based modeling of automotive power systems: conventional, electric, and hybrid electric vehicles**
*Onoda, S.; Emadi, A.;*

Vehicular Technology, IEEE Transactions on , Volume: 53 , Issue: 2 , March 2 Pages:390 - 400

[\[Abstract\]](#)
[\[PDF Full-Text \(576 KB\)\]](#)

IEEE JNL

**19 Controls and experiments: lessons learned**
*Alleyne, A.; Brennan, S.; Rasmussen, B.; Rong Zhang; Yisheng Zhang;*

Control Systems Magazine, IEEE , Volume: 23 , Issue: 5 , Oct. 2003



Pages:20 - 34

[\[Abstract\]](#) [\[PDF Full-Text \(761 KB\)\]](#) IEEE JNL

---

20 **Electric drive subsystem for a low-storage requirement hybrid electric vehicle**

*Miller, J.M.; Gale, A.R.; Anand Sankaran, V.;*

Vehicular Technology, IEEE Transactions on , Volume: 48 , Issue: 6 , Nov. 19

Pages:1788 - 1796

[\[Abstract\]](#) [\[PDF Full-Text \(420 KB\)\]](#) IEEE JNL

---

21 **Extracting physical parameters from system identification of a natural gas engine**

*Gangopadhyay, A.; Meckl, P.H.;*

Control Systems Technology, IEEE Transactions on , Volume: 9 , Issue: 3 , M

2001

Pages:425 - 434

[\[Abstract\]](#) [\[PDF Full-Text \(196 KB\)\]](#) IEEE JNL

---

22 **Overview of automotive sensors**

*Fleming, W.J.;*

Sensors Journal, IEEE , Volume: 1 , Issue: 4 , Dec. 2001

Pages:296 - 308

[\[Abstract\]](#) [\[PDF Full-Text \(240 KB\)\]](#) IEEE JNL

---

23 **Automotive engine control and hybrid systems: challenges and opportunities**

*Balluchi, A.; Benvenuti, L.; di Benedetto, M.D.; Pinello, C.; Sangiovanni-Vincentelli, A.L.;*

Proceedings of the IEEE , Volume: 88 , Issue: 7 , July 2000

Pages:888 - 912

[\[Abstract\]](#) [\[PDF Full-Text \(1116 KB\)\]](#) IEEE JNL

---

24 **A model reference load controller with adaptation using a two stage pressure relief valve**

*Rong Zhang; Alleyne, A.;*

American Control Conference, 2001. Proceedings of the 2001 , Volume: 5 , 21 June 2001

Pages:3949 - 3954 vol.5

[\[Abstract\]](#) [\[PDF Full-Text \(432 KB\)\]](#) IEEE CNF

---

25 **Top 10 Tech Cars**

*Voelcker, J.;*

Spectrum, IEEE , Volume: 41 , Issue: 3 , March 2004

Pages:28 - 35

[\[Abstract\]](#) [\[PDF Full-Text \(51012 KB\)\]](#) IEEE JNL

---

**26 Author Index**

Vehicular Technology, IEEE Transactions on , Volume: 48 , Issue: 6 , Nov. 19  
Pages:1 - 7

[\[Abstract\]](#) [\[PDF Full-Text \(236 KB\)\]](#) **IEEE JNL**

---

**27 Dynamic modeling and control of hybrid electric vehicle powertrain systems**

*Powell, B.K.; Bailey, K.E.; Cikanek, S.R.;*

Control Systems Magazine, IEEE , Volume: 18 , Issue: 5 , Oct. 1998

Pages:17 - 33

[\[Abstract\]](#) [\[PDF Full-Text \(2316 KB\)\]](#) **IEEE JNL**

---

**28 Speed-gradient approach to torque and air-to-fuel ratio control in engines**

*Kolmanovsky, I.V.; Druzhinina, M.; Jing Sun;*

Control Systems Technology, IEEE Transactions on , Volume: 10 , Issue: 5 , 2002

Pages:671 - 678

[\[Abstract\]](#) [\[PDF Full-Text \(301 KB\)\]](#) **IEEE JNL**

---

**29 Load modeling and emulation for an earthmoving vehicle powertrain**

*Carter, D.; Alleyne, A.;*

American Control Conference, 2003. Proceedings of the 2003 , Volume: 6 , 4-June 2003

Pages:4963 - 4968 vol.6

[\[Abstract\]](#) [\[PDF Full-Text \(438 KB\)\]](#) **IEEE CNF**

---

**30 Control system and dynamic model validation for a parallel hybrid electric vehicle**

*Cikanek, S.R.; Bailey, K.E.; Baraszu, R.C.; Powell, B.K.;*

American Control Conference, 1999. Proceedings of the 1999 , Volume: 2 , 2-June 1999

Pages:1222 - 1227 vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(600 KB\)\]](#) **IEEE CNF**

---

**[Prev](#) [1](#) [2](#) [3](#) [4](#) [5](#) [Next](#)**

---

[Home](#) | [Log-out](#) | [Journals](#) | [Conference Proceedings](#) | [Standards](#) | [Search by Author](#) | [Basic Search](#) | [Advanced Search](#) | [Join IEEE](#) | [Web Account](#) | [New this week](#) | [OPAC Linking Information](#) | [Your Feedback](#) | [Technical Support](#) | [Email Alerting](#) | [No Robots Please](#) | [Release Notes](#) | [IEEE Online Publications](#) | [Help](#) | [FAQ](#) | [Terms](#) | [Back to Top](#)

Copyright © 2004 IEEE — All rights reserved

IEEE HOME | SEARCH IEEE | SHOP | WEB ACCOUNT | CONTACT IEEE



Membership Publications/Services Standards Conferences Careers/Jobs

**IEEE Xplore**  
 RELEASE 1.7

 Welcome  
 United States Patent and Trademark Office


&gt;&gt; See

[Help](#) [FAQ](#) [Terms](#) [IEEE Peer Review](#)
[Quick Links](#)

Welcome to IEEE Xplore®

- ☐ Home
- ☐ What Can I Access?
- ☐ Log-out

Tables of Contents

- ☐ Journals & Magazines
- ☐ Conference Proceedings
- ☐ Standards

Search

- ☐ By Author
- ☐ Basic
- ☐ Advanced

Member Services

- ☐ Join IEEE
- ☐ Establish IEEE Web Account
- ☐ Access the IEEE Member Digital Library

Print Format

## Full-text Search Prototype Results

Fee

Your search matched **61** of **1028771** documents.A maximum of **500** results are displayed, **15** to a page, sorted by **Relevance Descending** order.

## Refine This Search:

You may refine your search by editing the current search expression or entering a new one in the text box.

simulation &lt;and&gt;transmission&lt;and&gt;powertrain

Search

☐ Check to search within this result set

## Results Key:

**JNL** = Journal or Magazine **CNF** = Conference **STD** = Standard

## 16 "AUTOTOOL", a PC-based object-oriented automotive powertrain simulation tool

Jung-Ho Kim; Byeong Yong Jeong; Dong-Il Dan Cho; Hoyoun Kim;

Intelligent Transportation System, 1997. ITSC 97. IEEE Conference on , 9-12 1997

Pages:753 - 758

[\[Abstract\]](#)[\[PDF Full-Text \(460 KB\)\]](#)

IEEE CNF

## 17 Reliability testing for customer satisfaction attributes

Plotkin, C.W.; Kee S. Moon;

Reliability and Maintainability, 2004 Annual Symposium - RAMS , Jan. 26-29, Pages:280 - 286

[\[Abstract\]](#)[\[PDF Full-Text \(400 KB\)\]](#)

IEEE CNF

## 18 PSIM-based modeling of automotive power systems: conventional, electric, and hybrid electric vehicles

Onoda, S.; Emadi, A.;

Vehicular Technology, IEEE Transactions on , Volume: 53 , Issue: 2 , March 2003 Pages:390 - 400

[\[Abstract\]](#)[\[PDF Full-Text \(576 KB\)\]](#)

IEEE JNL

## 19 Controls and experiments: lessons learned

Alleyne, A.; Brennan, S.; Rasmussen, B.; Rong Zhang; Yisheng Zhang;

Control Systems Magazine, IEEE , Volume: 23 , Issue: 5 , Oct. 2003

Pages:20 - 34

[\[Abstract\]](#) [\[PDF Full-Text \(761 KB\)\]](#) IEEE JNL

---

20 **Electric drive subsystem for a low-storage requirement hybrid electric vehicle**

*Miller, J.M.; Gale, A.R.; Anand Sankaran, V.;*

Vehicular Technology, IEEE Transactions on , Volume: 48 , Issue: 6 , Nov. 19

Pages:1788 - 1796

[\[Abstract\]](#) [\[PDF Full-Text \(420 KB\)\]](#) IEEE JNL

---

21 **Extracting physical parameters from system identification of a natural gas engine**

*Gangopadhyay, A.; Meckl, P.H.;*

Control Systems Technology, IEEE Transactions on , Volume: 9 , Issue: 3 , M

2001

Pages:425 - 434

[\[Abstract\]](#) [\[PDF Full-Text \(196 KB\)\]](#) IEEE JNL

---

22 **Overview of automotive sensors**

*Fleming, W.J.;*

Sensors Journal, IEEE , Volume: 1 , Issue: 4 , Dec. 2001

Pages:296 - 308

[\[Abstract\]](#) [\[PDF Full-Text \(240 KB\)\]](#) IEEE JNL

---

23 **Automotive engine control and hybrid systems: challenges and opportunities**

*Balluchi, A.; Benvenuti, L.; di Benedetto, M.D.; Pinello, C.; Sangiovanni-Vincentelli, A.L.;*

Proceedings of the IEEE , Volume: 88 , Issue: 7 , July 2000

Pages:888 - 912

[\[Abstract\]](#) [\[PDF Full-Text \(1116 KB\)\]](#) IEEE JNL

---

24 **A model reference load controller with adaptation using a two stage pressure relief valve**

*Rong Zhang; Alleyne, A.;*

American Control Conference, 2001. Proceedings of the 2001 , Volume: 5 , 21 June 2001

Pages:3949 - 3954 vol.5

[\[Abstract\]](#) [\[PDF Full-Text \(432 KB\)\]](#) IEEE CNF

---

25 **Top 10 Tech Cars**

*Voelcker, J.;*

Spectrum, IEEE , Volume: 41 , Issue: 3 , March 2004

Pages:28 - 35

[\[Abstract\]](#) [\[PDF Full-Text \(51012 KB\)\]](#) IEEE JNL

---

**26 Author Index**

Vehicular Technology, IEEE Transactions on , Volume: 48 , Issue: 6 , Nov. 19  
Pages:1 - 7

[\[Abstract\]](#) [\[PDF Full-Text \(236 KB\)\]](#) **IEEE JNL**

---

**27 Dynamic modeling and control of hybrid electric vehicle powertrain systems**

*Powell, B.K.; Bailey, K.E.; Cikanek, S.R.;*

Control Systems Magazine, IEEE , Volume: 18 , Issue: 5 , Oct. 1998

Pages:17 - 33

[\[Abstract\]](#) [\[PDF Full-Text \(2316 KB\)\]](#) **IEEE JNL**

---

**28 Speed-gradient approach to torque and air-to-fuel ratio control in engines**

*Kolmanovsky, I.V.; Druzhinina, M.; Jing Sun;*

Control Systems Technology, IEEE Transactions on , Volume: 10 , Issue: 5 , 2002

Pages:671 - 678

[\[Abstract\]](#) [\[PDF Full-Text \(301 KB\)\]](#) **IEEE JNL**

---

**29 Load modeling and emulation for an earthmoving vehicle powertrain**

*Carter, D.; Alleyne, A.;*

American Control Conference, 2003. Proceedings of the 2003 , Volume: 6 , 4-June 2003

Pages:4963 - 4968 vol.6

[\[Abstract\]](#) [\[PDF Full-Text \(438 KB\)\]](#) **IEEE CNF**

---

**30 Control system and dynamic model validation for a parallel hybrid electric vehicle**

*Cikanek, S.R.; Bailey, K.E.; Baraszu, R.C.; Powell, B.K.;*

American Control Conference, 1999. Proceedings of the 1999 , Volume: 2 , 2-June 1999

Pages:1222 - 1227 vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(600 KB\)\]](#) **IEEE CNF**

---

**[Prev](#) [1](#) [2](#) [3](#) [4](#) [5](#) [Next](#)**

---

[Home](#) | [Log-out](#) | [Journals](#) | [Conference Proceedings](#) | [Standards](#) | [Search by Author](#) | [Basic Search](#) | [Advanced Search](#) | [Join IEEE](#) | [Web Account](#) | [New this week](#) | [OPAC Linking Information](#) | [Your Feedback](#) | [Technical Support](#) | [Email Alerting](#) | [No Robots Please](#) | [Release Notes](#) | [IEEE Online Publications](#) | [Help](#) | [FAQ](#) | [Terms](#) | [Back to Top](#)

Copyright © 2004 IEEE — All rights reserved

IEEE HOME | SEARCH IEEE | SHOP | WEB ACCOUNT | CONTACT IEEE



Membership Publications/Services Standards Conferences Careers/Jobs

**IEEE Xplore**  
 RELEASE 1.7

 Welcome  
 United States Patent and Trademark Office


» Se

[Help](#) [FAQ](#) [Terms](#) [IEEE Peer Review](#)
**Quick Links****Welcome to IEEE Xplore®**

- ☐ Home
- ☐ What Can I Access?
- ☐ Log-out

**Tables of Contents**

- ☐ Journals & Magazines
- ☐ Conference Proceedings
- ☐ Standards

**Search**

- ☐ By Author
- ☐ Basic
- ☐ Advanced

**Member Services**

- ☐ Join IEEE
- ☐ Establish IEEE Web Account
- ☐ Access the IEEE Member Digital Library

Print Format

**Full-text Search Prototype Results**

Fee

Your search matched **61** of **1028771** documents.  
 A maximum of **500** results are displayed, **15** to a page, sorted by **Relevance Descending** order.

**Refine This Search:**

You may refine your search by editing the current search expression or entering a new one in the text box.

simulation &lt;and&gt;transmission&lt;and&gt;powertrain

**Search**
☐ Check to search within this result set
**Results Key:**
**JNL** = Journal or Magazine    **CNF** = Conference    **STD** = Standard

**31 Effects of drivetrain hybridization on fuel economy and dynamic performance of parallel hybrid electric vehicles**

Lukic, S.M.; Emadi, A.;

 Vehicular Technology, IEEE Transactions on , Volume: 53 , Issue: 2 , March 2006  
 Pages:385 - 389
[\[Abstract\]](#)[\[PDF Full-Text \(360 KB\)\]](#)**IEEE JNL**
**32 ADVISOR-Based Model of a Battery and an Ultra-Capacitor Energy Source for Hybrid Electric Vehicles**

Baisden, A.C.; Emadi, A.;

 Vehicular Technology, IEEE Transactions on , Volume: 53 , Issue: 1 , Jan. 2006  
 Pages:199 - 205
[\[Abstract\]](#)[\[PDF Full-Text \(392 KB\)\]](#)**IEEE JNL**
**33 Automotive fault diagnosis - part II: a distributed agent diagnostic system**

Murphey, Y.L.; Crossman, J.A.; ZhiHang Chen; Cardillo, J.;

 Vehicular Technology, IEEE Transactions on , Volume: 52 , Issue: 4 , July 2006  
 Pages:1076 - 1098
[\[Abstract\]](#)[\[PDF Full-Text \(1276 KB\)\]](#)**IEEE JNL**
**34 RABBIT: a testbed for advanced control theory**

 Chevallereau, C.; Abba, G.; Aoustin, Y.; Plestan, F.; Westervelt, E.R.; Canudas  
 Wit, C.; Grizzle, J.W.;

Control Systems Magazine, IEEE , Volume: 23 , Issue: 5 , Oct. 2003  
Pages:57 - 79

[\[Abstract\]](#) [\[PDF Full-Text \(769 KB\)\]](#) IEEE JNL

---

35 **The development of vehicle stability control at Ford**

*Tseng, H.E.; Ashrafi, B.; Madau, D.; Allen Brown, T.; Recker, D.;*

Mechatronics, IEEE/ASME Transactions on , Volume: 4 , Issue: 3 , Sept. 1999  
Pages:223 - 234

[\[Abstract\]](#) [\[PDF Full-Text \(1272 KB\)\]](#) IEEE JNL

---

36 **A Matlab-based modeling and simulation package for electric and hybrid electric vehicle design**

*Butler, K.L.; Ehsani, M.; Kamath, P.;*

Vehicular Technology, IEEE Transactions on , Volume: 48 , Issue: 6 , Nov. 1999  
Pages:1770 - 1778

[\[Abstract\]](#) [\[PDF Full-Text \(224 KB\)\]](#) IEEE JNL

---

37 **Unified modeling of hybrid electric vehicle drivetrains**

*Rizzoni, G.; Guzzella, L.; Baumann, B.M.;*

Mechatronics, IEEE/ASME Transactions on , Volume: 4 , Issue: 3 , Sept. 1999  
Pages:246 - 257

[\[Abstract\]](#) [\[PDF Full-Text \(288 KB\)\]](#) IEEE JNL

---

38 **Analysis and control of transient torque response in engines with internal exhaust gas recirculation**

*Stefanopoulou, A.G.; Kolmanovsky, I.;*

Control Systems Technology, IEEE Transactions on , Volume: 7 , Issue: 5 , Sept. 1999  
Pages:555 - 566

[\[Abstract\]](#) [\[PDF Full-Text \(504 KB\)\]](#) IEEE JNL

---

39 **Electrical two-speed propulsion by motor winding switching and its control strategies for electric vehicles**

*Hong Huang; Liuchen Chang;*

Vehicular Technology, IEEE Transactions on , Volume: 48 , Issue: 2 , March 1999  
Pages:607 - 618

[\[Abstract\]](#) [\[PDF Full-Text \(368 KB\)\]](#) IEEE JNL

---

40 **Optimal design of electromechanical actuators for active loads**

*Haskew, T.A.; Schinstock, D.E.;*

Mechatronics, IEEE/ASME Transactions on , Volume: 3 , Issue: 2 , June 1998  
Pages:129 - 137

[\[Abstract\]](#) [\[PDF Full-Text \(244 KB\)\]](#) IEEE JNL

---

41 **Hardware/software co-design**

*De Michell, G.; Gupta, R.K.;*

Proceedings of the IEEE , Volume: 85 , Issue: 3 , March 1997  
Pages:349 - 365

[\[Abstract\]](#) [\[PDF Full-Text \(252 KB\)\]](#) **IEEE JNL**

---

42 **Fault-tolerant control for automated highway systems**

*Spooner, J.T.; Passino, K.M.;*

Vehicular Technology, IEEE Transactions on , Volume: 46 , Issue: 3 , Aug. 19  
Pages:770 - 785

[\[Abstract\]](#) [\[PDF Full-Text \(504 KB\)\]](#) **IEEE JNL**

---

43 **The state of the art of electric and hybrid vehicles**

*Chan, C.C.;*

Proceedings of the IEEE , Volume: 90 , Issue: 2 , Feb. 2002  
Pages:247 - 275

[\[Abstract\]](#) [\[PDF Full-Text \(764 KB\)\]](#) **IEEE JNL**

---

44 **Speed gradient approach to longitudinal control of heavy-duty veh  
equipped with variable compression brake**

*Druzhinina, M.; Stefanopoulou, A.G.; Moklegard, L.;*

Control Systems Technology, IEEE Transactions on , Volume: 10 , Issue: 2 , I  
2002

Pages:209 - 220

[\[Abstract\]](#) [\[PDF Full-Text \(258 KB\)\]](#) **IEEE JNL**

---

45 **Author Index**

Industry Applications, IEEE Transactions on , Volume: 38 , Issue: 1 , Jan.-Feb  
2002

Pages:211 - 246

[\[Abstract\]](#) [\[PDF Full-Text \(330 KB\)\]](#) **IEEE JNL**

---

**[Prev](#) [1](#) [2](#) [3](#) [4](#) [5](#) [Next](#)**

---

[Home](#) | [Log-out](#) | [Journals](#) | [Conference Proceedings](#) | [Standards](#) | [Search by Author](#) | [Basic Search](#) | [Advanced Search](#) | [Join IEEE](#) | [Web Account](#) |  
[New this week](#) | [OPAC Linking Information](#) | [Your Feedback](#) | [Technical Support](#) | [Email Alerting](#) | [No Robots Please](#) | [Release Notes](#) | [IEEE Online](#)  
[Publications](#) | [Help](#) | [FAQ](#) | [Terms](#) | [Back to Top](#)

Copyright © 2004 IEEE — All rights reserved



IEEE HOME | SEARCH IEEE | SHOP | WEB ACCOUNT | CONTACT IEEE



Membership Publications/Services Standards Conferences Careers/Jobs

**IEEE Xplore<sup>®</sup>**  
 RELEASE 1.7

 Welcome  
 United States Patent and Trademark Office


» Se

[Help](#) [FAQ](#) [Terms](#) [IEEE Peer Review](#)
[Quick Links](#)
Welcome to IEEE Xplore<sup>®</sup>

- ☐ Home
- ☐ What Can I Access?
- ☐ Log-out

Tables of Contents

- ☐ Journals & Magazines
- ☐ Conference Proceedings
- ☐ Standards

Search

- ☐ By Author
- ☐ Basic
- ☐ Advanced

Member Services

- ☐ Join IEEE
- ☐ Establish IEEE Web Account
- ☐ Access the IEEE Member Digital Library

Print Format

## Full-text Search Prototype Results

Fee

Your search matched **61** of **1028771** documents.  
 A maximum of **500** results are displayed, **15** to a page, sorted by **Relevance Descending** order.

## Refine This Search:

You may refine your search by editing the current search expression or enter a new one in the text box.


☐ Check to search within this result set

## Results Key:

**JNL** = Journal or Magazine   **CNF** = Conference   **STD** = Standard

**46 A complete fault diagnostic system for automated vehicles operating in a platoon**
*Rajamani, R.; Howell, A.S.; Chieh Chen; Hedrick, J.K.; Tomizuka, M.;*

Control Systems Technology, IEEE Transactions on , Volume: 9 , Issue: 4 , Jun 2001

Pages:553 - 564

[\[Abstract\]](#)   [\[PDF Full-Text \(300 KB\)\]](#)   IEEE JNL

**47 Intelligent performance management of networks for advanced manufacturing systems**
*Suk Lee; Sang Ho Lee; Kyung Chang Lee; Man Hyung Lee; Harashima, F.;*

 Industrial Electronics, IEEE Transactions on , Volume: 48 , Issue: 4 , Aug. 2000  
 Pages:731 - 741

[\[Abstract\]](#)   [\[PDF Full-Text \(288 KB\)\]](#)   IEEE JNL

**48 A Lyapunov function approach to longitudinal control of vehicles in a platoon**
*Tae Soo no; Kil-To Chong; Do-Hwan Roh;*

 Vehicular Technology, IEEE Transactions on , Volume: 50 , Issue: 1 , Jan. 2001  
 Pages:116 - 124

[\[Abstract\]](#)   [\[PDF Full-Text \(156 KB\)\]](#)   IEEE JNL

**49 Selecting R&D projects at BMW: a case study of adopting mathematical programming models**

*Loch, C.H.; Pich, M.T.; Terwiesch, C.; Urbschat, M.;*  
Engineering Management, IEEE Transactions on , Volume: 48 , Issue: 1 , Feb

Pages:70 - 80

[\[Abstract\]](#) [\[PDF Full-Text \(192 KB\)\]](#) IEEE JNL

---

50 **Nonlinear brake control for vehicle CW/CA systems**

*Kyongsu Yi; Jintai Chung;*

Mechatronics, IEEE/ASME Transactions on , Volume: 6 , Issue: 1 , Mar 2001

Pages:17 - 25

[\[Abstract\]](#) [\[PDF Full-Text \(224 KB\)\]](#) IEEE JNL

---

51 **Nonlinear control applied to gearshifting in automated manual transmissions**

*Fredriksson, J.; Egardt, B.;*

Decision and Control, 2000. Proceedings of the 39th IEEE Conference on , Vo  
1 , 12-15 Dec. 2000

Pages:444 - 449 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(436 KB\)\]](#) IEEE CNF

---

52 **Optimization strategy for design and control of a hybrid vehicle**

*Kleimaier, A.; Schroder, D.;*

Advanced Motion Control, 2000. Proceedings. 6th International Workshop on  
March-1 April 2000

Pages:459 - 464

[\[Abstract\]](#) [\[PDF Full-Text \(572 KB\)\]](#) IEEE CNF

---

53 **Parallel hybrid electric vehicle dynamic model and powertrain control**

*Cikanek, S.R.; Bailey, K.E.; Powell, B.K.;*

American Control Conference, 1997. Proceedings of the 1997 , Volume: 1 , 4-  
June 1997

Pages:684 - 688 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(520 KB\)\]](#) IEEE CNF

---

54 **System level design of embedded controllers: knock detection, a case study in the automotive domain**

*Mangeruca, L.; Ferrari, A.; Sangiovanni-Vincentelli, A.; Pierantoni, A.; Pennes  
M.;*

Design, Automation and Test in Europe Conference and Exhibition, 2003 , 2003  
Pages:232 - 237 suppl.

[\[Abstract\]](#) [\[PDF Full-Text \(644 KB\)\]](#) IEEE CNF

---

55 **System level design of embedded controllers: knock detection, a case study in the automotive domain**

*Mangeruca, L.; Ferrari, A.; Sangiovanni-Vincentelli, A.; Pierantoni, A.; Pennes  
M.;*

Design, Automation and Test in Europe Conference and Exhibition, 2003 , 2003

Pages:232 - 237

[\[Abstract\]](#) [\[PDF Full-Text \( KB\)\]](#) [IEEE CNF](#)

---

**56 Reliability prediction of hydraulic gasket sealing**

*Yongcang Zhang; Rogers, R.; Skrzyszewski, T.;*

Reliability and Maintainability Symposium, 2003. Annual , 27-30 Jan. 2003

Pages:214 - 219

[\[Abstract\]](#) [\[PDF Full-Text \(338 KB\)\]](#) [IEEE CNF](#)

---

**57 Reliability data collection and analysis system**

*Groen, F.J.; Siyuan Jiang; Mosleh, A.; Droguett, E.L.;*

Reliability and Maintainability, 2004 Annual Symposium - RAMS , Jan. 26-29,

Pages:43 - 48

[\[Abstract\]](#) [\[PDF Full-Text \(400 KB\)\]](#) [IEEE CNF](#)

---

**58 A PSIM-based modeling tool for conventional, electric, and hybrid electric vehicles studies**

*Onoda, S.; Lukic, S.M.; NASiri, A.; Emadi, A.;*

Vehicular Technology Conference, 2002. Proceedings. VTC 2002-Fall. 2002 IE

56th , Volume: 3 , 24-28 Sept. 2002

Pages:1676 - 1680 vol.3

[\[Abstract\]](#) [\[PDF Full-Text \(410 KB\)\]](#) [IEEE CNF](#)

---

**59 A versatile laboratory test bench for developing powertrains of electric vehicles**

*Schupbach, R.M.; Balda, J.C.;*

Vehicular Technology Conference, 2002. Proceedings. VTC 2002-Fall. 2002 IE

56th , Volume: 3 , 24-28 Sept. 2002

Pages:1666 - 1670 vol.3

[\[Abstract\]](#) [\[PDF Full-Text \(378 KB\)\]](#) [IEEE CNF](#)

---

**60 Performance analysis of automotive power systems: effects of power electronic intensive loads and electrically-assisted propulsion system**

*Lukic, S.M.; Emadi, A.;*

Vehicular Technology Conference, 2002. Proceedings. VTC 2002-Fall. 2002 IE

56th , Volume: 3 , 24-28 Sept. 2002

Pages:1835 - 1839 vol.3

[\[Abstract\]](#) [\[PDF Full-Text \(320 KB\)\]](#) [IEEE CNF](#)

---

[Prev](#) [1](#) [2](#) [3](#) [4](#) [5](#) [Next](#)

---

[Home](#) | [Log-out](#) | [Journals](#) | [Conference Proceedings](#) | [Standards](#) | [Search by Author](#) | [Basic Search](#) | [Advanced Search](#) | [Join IEEE](#) | [Web Account](#) | [New this week](#) | [OPAC Linking Information](#) | [Your Feedback](#) | [Technical Support](#) | [Email Alerting](#) | [No Robots Please](#) | [Release Notes](#) | [IEEE Online Publications](#) | [Help](#) | [FAQ](#) | [Terms](#) | [Back to Top](#)

Copyright © 2004 IEEE — All rights reserved

IEEE HOME | SEARCH IEEE | SHOP | WEB ACCOUNT | CONTACT IEEE



Membership Publications/Services Standards Conferences Careers/Jobs

**IEEE Xplore<sup>®</sup>**  
 RELEASE 1.7

 Welcome  
 United States Patent and Trademark Office


&gt;&gt; See

[Help](#) [FAQ](#) [Terms](#) [IEEE Peer Review](#)
[Quick Links](#)
Welcome to IEEE Xplore<sup>®</sup>

- ☐ Home
- ☐ What Can I Access?
- ☐ Log-out

Tables of Contents

- ☐ Journals & Magazines
- ☐ Conference Proceedings
- ☐ Standards

Search

- ☐ By Author
- ☐ Basic
- ☐ Advanced

Member Services

- ☐ Join IEEE
- ☐ Establish IEEE Web Account
- ☐ Access the IEEE Member Digital Library

## Full-text Search Prototype Results

Fee

Your search matched **61** of **1028771** documents.A maximum of **500** results are displayed, **15** to a page, sorted by **Relevance Descending** order.

## Refine This Search:

You may refine your search by editing the current search expression or entering a new one in the text box.

simulation &lt;and&gt;transmission&lt;and&gt;powertrain

Search

☐ Check to search within this result set

## Results Key:

**JNL** = Journal or Magazine **CNF** = Conference **STD** = Standard**61 Torque fill-in for an automated shift manual transmission in a para hybrid electric vehicle***Baraszu, R.C.; Cikanek, S.R.;*

American Control Conference, 2002. Proceedings of the 2002 , Volume: 2 , 8-May 2002

Pages: 1431 - 1436 vol.2

[\[Abstract\]](#)[\[PDF Full-Text \(541 KB\)\]](#)**IEEE CNF**[Prev](#) [1](#) [2](#) [3](#) [4](#) [5](#)

Print Format

[Home](#) | [Log-out](#) | [Journals](#) | [Conference Proceedings](#) | [Standards](#) | [Search by Author](#) | [Basic Search](#) | [Advanced Search](#) | [Join IEEE](#) | [Web Account](#) | [New this week](#) | [OPAC Linking Information](#) | [Your Feedback](#) | [Technical Support](#) | [Email Alerting](#) | [No Robots Please](#) | [Release Notes](#) | [IEEE Online Publications](#) | [Help](#) | [FAQ](#) | [Terms](#) | [Back to Top](#)

Copyright © 2004 IEEE — All rights reserved